

PT 1.e. MLK4, PAK4, associated with skin damage for use in drug screening
PT and development -
XX
PS Claim 1; Page 23; 51pp; English.
XX
CC The present sequence is that of a MLK4 polypeptide, as predicted
CC from an isolated MLK4 partial cDNA (see AAF30487). MLK4 is 1 of 4
CC novel c-Jun N-terminal kinase kinase kinases (JNKKK) of the
CC invention. It has 50-78% identity to members of the MLK family of
CC JNKKKs. MLK4 is expressed in keratinocytes, kidney and pancreas,
CC but not in brain, placenta, lung, liver or skeletal muscle. The
CC transcript size is 4.8 kb. MLK4, PAK4, and YSK2 polynucleotides
CC and their gene products are useful for elucidation of the components
CC involved in the cellular response to ultraviolet radiation. They can
CC be used in drug discovery, by screening for compounds that affect the
CC activity of a JNKKK or which affect the expression of a gene encoding
CC a JNKKK. Particularly useful are drugs that reduce UV light-induced
CC damage of the skin, inflammation and psoriasis, and drugs that
CC enhance wound healing.
XX
SQ Sequence 54 AA;
Query Match 100.0%; Score 293; DB 22; Length 54;
Best Local Similarity 100.0%; Pred. No. 4, 6e-36;
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54
DB 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54

RESULT 2
AAB85513
XX AAB85513 standard; protein: 719 AA.
AC
XX AAB85513;
XX
DT 25-SEP-2001 (first entry)
XX
DE Human protein kinase SGK067.
XX
XX Protein kinase; enzyme; cytosolic; neurotrophic; neuroprotective; human;
KW antiparkinsonian; virucide; antibacterial; antifungal; antimigraine;
KW analgesic; hypotensive; hypertensive; immunosuppressive; antiallergic;
KW antipsoriatic; antineumatic; antiarthritic; ophthalmological; anorectic;
KW osteopathic; thrombolytic; antiatherosclerotic; antiasthmatic;
KW vasotropic; antidiabetic; gene therapy.
XX
OS Homo sapiens.
XX
XX WO200155356-A2.
XX
XX 02-AUG-2001.
XX
XX 25-JAN-2001; 2001WO-US02337.
XX
XX 25-JAN-2000; 2000US-0178078.
XX 31-JAN-2000; 2000US-0179364.
XX 17-FEB-2000; 2000US-0183173.
XX 17-MAR-2000; 2000US-0190162.
XX 29-MAR-2000; 2000US-0193404.
XX 13-NOV-2000; 2000US-0247013.
XX
XX (SUGE-) SUGEN INC.
XX
XX Plowman G, Whyte D, Manning G, Sudarsanam S, Martinez R;
XX
XX WPI. 2001-476202/51.
XX N-PSDB; AAA46913.
XX
XX Kinase polypeptides useful for treating cancers, Alzheimer's disease,
XX viral infections, diabetes, obesity, organ transplant rejection and
XX rheumatoid arthritis.

XX
PS Claim 7; Page 217; 218pp; English.
XX
XX The invention provides human protein kinases and protein kinase-like
XX enzymes and polynucleotides encoding the polypeptides. The kinase
XX polypeptides and their modulators are useful for treating a disease or
XX disorder such as cancer, immune-related diseases, cardiovascular disease,
XX brain or neuronal-associated disease and metabolic disorders, including
XX cancers of tissues, cancers of hematopoietic origin, diseases of the
XX central nervous system, diseases of the peripheral nervous system,
XX Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic
XX lateral sclerosis, viral infections, infections caused by prions,
XX bacteria and fungi, ocular diseases, migraines, pain, sexual dysfunction,
XX mood disorders, attention disorders, cognition disorders, hypotension,
XX hypertension, psychotic disorders, neurological disorders, dyskinesias,
XX metabolic disorders, and organ transplant rejection. They are also useful
XX for treating rhinitis, autoimmunity, atherosclerosis, psoriasis,
XX osteoarthritis, asthma, chronic inflammatory pelvic disease, chronic
XX inflammatory bowel disease, rheumatoid arthritis, metabolic disorders
XX such as diabetes, obesity, cardiovascular diseases such as reperfusion
XX injury, coronary thrombosis, clotting disorders and atherosclerosis,
XX ocular diseases such as glaucoma, retinopathy and macular degeneration,
XX psychiatric and neurological disorders such as anxiety, schizophrenia,
XX dementia, manic depression, etc. The polynucleotides are useful in gene
XX therapy techniques to treat the above mentioned disorders. Sequences
XX AAB85491-85522 represent the human protein kinases of the invention.
XX
SQ Sequence 719 AA;
Query Match 96.2%; Score 282; DB 22; Length 719;
Best Local Similarity 94.4%; Pred. No. 6e-33;
Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54
DB 261 HRDLKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 314

RESULT 3
AABP61000
XX AABP61000 standard; protein: 1021 AA.
XX
XX AABP61000;
XX
XX 10-SEP-2002 (first entry)
XX
XX Novel human protein. SEQ ID 87.
XX
XX Human; cytosolic; vulnery; antiarteriosclerotic; antiparkinsonian;
KW neurotrophic; neuroprotective; immunosuppressive; haemostatic;
KW antiinflammatory; cardiant; antilucer; virucide; antithyroid;
KW cerebroprotective; anorectic; metabolic; vaccenic; cancer; infection;
KW wound healing disorders; atherosclerosis; Parkinson's disease;
KW Alzheimer's disease; autoimmune disorder; haematopoietic disorder;
KW inflammation; neoplastic disease; nervous system disorder;
KW cardiovascular disorders; pancreatitis; respiratory disorder;
KW hyperproliferation; systemic autoimmune disease; hyper-immunity;
KW developmental abnormality; gastrointestinal ulceration; neuropathy;
KW haematological disease; metabolic disease; sperm dysfunction;
KW thyroid disorder; hypothyroidism; brain damage; colitis;
KW cone photo- transduction deficiency; neurological disease; stroke;
KW anglogenesis; ovulation disorder; spinal cord; thyroid gland; heart;
KW trachea; thymus; lymph node; muscular system; obesity; anorexia;
KW growth abnormality; precocious puberty.
XX
XX Homo sapiens.
XX
XX WO200250105-A1.
XX
XX 27-JUN-2002.
XX
XX 17-DEC-2001; 2001WO-US49232.
XX

PR 19-DEC-2000; 2000US-256710P.
 PR 20-DEC-2000; 2000US-257048P.
 PR 09-JAN-2001; 2001US-260482P.
 PR 30-JAN-2001; 2001US-264922P.
 PR 06-FEB-2001; 2001US-266797P.
 PR 19-MAR-2001; 2001US-276988P.
 PR 04-APR-2001; 2001US-281535P.
 PR 08-MAY-2001; 2001US-289622P.
 XX
 PA (SMIK) SMITHKLINE BEECHAM CORP.
 PA (SMIK) SMITHKLINE BEECHAM PLC.
 PA (GLAX) GLAXO GROUP LTD.
 XX
 PI Agarwal P, Birkeland M, Cogswell JP, Kahnlick KF, Lai Y;
 PI Martensen SA, Rizvi SK, Smith RF, Strum JC, Xie Q;
 XX
 DR WPI; 2002-508784/54.
 DR N-PSDB; ABO86165.
 XX
 PT Secreted proteins and polynucleotides useful as vaccines for preventing
 PT or treating various diseases e.g. cancer, wounds, atherosclerosis,
 PT Parkinson's disease, Alzheimer's disease, infection, autoimmune
 PT disorder -
 XX
 PS Claim 1(a); Page 307-309; 335pp; English.
 XX
 CC The invention relates to an isolated polypeptide with signal sequences
 CC which allow it to be secreted extracellularly or membrane associated.
 CC The activity of polypeptides of the invention may be described as,
 CC cytostatic, vulnerary, antihypertensive, antiparkinsonian, neurotropic,
 CC neuroprotective, immunosuppressive, haemostatic, antiinflammatory,
 CC cardiant, anticancer, virucide, antihypertoid, cerebroprotective, anorectic,
 CC and metabolic. Polypeptides and polynucleotides of the invention are
 CC useful in the treatment, or as a vaccine in the prevention of, cancer,
 CC wound healing disorders, infection, atherosclerosis, Parkinson's disease
 CC and Alzheimer's disease, autoimmune disorder, haematopoietic disorder,
 CC inflammation, neoplastic diseases, nervous system related disorders and
 CC cardiovascular disorders, pancreatitis, respiratory disorder,
 CC hyperproliferation, systemic autoimmune disease, hyper-immunity,
 CC developmental abnormality, gastrointestinal ulceration, neuropathy,
 CC haematological diseases, metabolic diseases, sperm dysfunction, thyroid
 CC disorders e.g. hypothyroidism, brain damages, colitis, cone photo-
 CC transduction deficiency, neurological diseases, stroke, angiogenesis,
 CC ovulation disorders, diseases in the spinal cord, thyroid gland, heart,
 CC trachea, thymus, lymph node and muscular system, obesity, anorexia,
 CC growth abnormalities, and alleviation of precocious puberty. The
 CC sequences given in records ABP60965-ABP61019 represent novel human
 CC proteins of the invention.
 CC
 SO Sequence 1021 AA;
 XX
 Query Match 96.2%; Score 282; DB 23; Length 1021;
 Best Local Similarity 94.4%; Pred. No. 9.4e-33;
 Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 HRDIAKGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 54
 Db 246 HRDIAKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 299
 RESULT 4
 ID ABB80923 standard; Protein; 1036 AA.
 AC ABB80923;
 XX
 XX 08-OCT-2002 (first entry)
 DE Novel human protein (NHP) kinase.
 XX
 XX Novel human protein; NHP; kinase; human; enzyme.
 KW
 OS Homo sapiens.

XX
 FH Key Location/Qualifiers
 FT Misc-difference 925 /note= "encoded by WGT"
 FT
 XX
 XX WO200255685-A2.
 XX
 PD 18-JUL-2002.
 XX
 PF 10-DEC-2001; 2001WO-US47606.
 XX
 XX 11-DEC-2000; 2000US-254744P.
 PR
 XX (LEXI-) LEXICON GENETICS INC.
 PA
 XX Hu Y, Kieke JA, Donoho G;
 PI
 XX
 XX WPI; 2002-566739/60.
 DR N-PSDB; ABN86357, ABN86358.
 XX
 PT Novel human kinase polynucleotide encoding a protein that shares
 PT structural similarity with animal kinases for therapeutic, diagnostic
 PT and pharmacogenomic applications -
 XX
 PS Claim 1; Page 37-39; 41pp; English.
 XX
 CC The invention relates to a novel human protein (NHP), kinase that shares
 CC structural similarity with animal kinases. The kinase polynucleotides are
 CC useful in therapeutic, diagnostic and pharmacogenomic applications and
 CC for identifying compounds that modulate, i.e. act as agonists or
 CC antagonists of the gene expression or gene product activity. The present
 CC sequence represents the NHP kinase.
 CC
 SO Sequence 1036 AA;
 XX
 Query Match 96.2%; Score 282; DB 23; Length 1036;
 Best Local Similarity 94.4%; Pred. No. 9.6e-33;
 Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 HRDIAKGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 54
 Db 261 HRDIAKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 314
 RESULT 5
 ID AAE11775 standard; Protein; 1046 AA.
 AC AAE11775;
 XX
 XX 18-DEC-2001 (first entry)
 DE Human kinase (PKIN)-9 protein.
 XX
 XX Human kinase; PKIN; gene therapy; adenocarcinoma; immune disorder; gout;
 KW cancer; allergy; sarcoma; leukaemia; acquired immune deficiency syndrome;
 KW AIDS; Addison's disease; microbial infection; inflammation; osteoporosis;
 KW atherosclerosis; cardiovascular disease; myocardial infarction; anaemia;
 KW myasthenia gravis; cirrhosis; cataract; growth and development disorder;
 KW seizure disorder; pulmonary embolism; Gaucher's disease; lipid disorder;
 KW lipid storage disease; Pick's disease; Tay-Sachs disease; renal disease;
 KW obesity; restorative therapy; immunomodulatory; vaccine; cardiovascular;
 KW antimicrobial; cytostatic; antiinflammatory; asthma.
 KW
 OS Homo sapiens.
 XX
 XX
 FH Key Location/Qualifiers
 FT Domain 55..114
 FT Domain /note= "SH3 domain"
 FT Domain 134..393
 FT /note= "Eukaryotic protein kinase domain"
 FT Domain 136..386
 FT /note= "Protein kinase domain"

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|----|--|----------|--|
| FT | Region | 154..207 | /note="Receptor tyrosine kinase" |
| FT | Region | 181..228 | /note="Receptor tyrosine kinase" |
| FT | Region | 210..223 | /note="Tyrosine kinase catalytic site" |
| FT | Region | 232..254 | /note="Receptor tyrosine kinase" |
| FT | Region | 248..266 | /note="Tyrosine kinase catalytic site" |
| FT | Region | 290..337 | /note="Receptor tyrosine kinase" |
| FT | Region | 291..340 | /note="Receptor tyrosine kinase" |
| FT | Region | 298..330 | /note="Receptor tyrosine kinase" |
| FT | Region | 301..311 | /note="Tyrosine kinase catalytic site" |
| FT | Region | 320..342 | /note="Tyrosine kinase catalytic site" |
| FT | Region | 337..389 | /note="Receptor tyrosine kinase" |
| FT | Region | 345..389 | /note="Receptor tyrosine kinase" |
| FT | Region | 356..404 | /note="Receptor tyrosine kinase" |
| FT | Region | 364..386 | /note="Tyrosine kinase catalytic site" |
| PN | MO200181555-A2. | | |
| PD | 01-NOV-2001. | | |
| PF | 20-APR-2001; 2001WO-US12992. | | |
| PR | 20-APR-2000; 2000US-199021P. | | |
| PR | 28-APR-2000; 2000US-200226P. | | |
| PR | 05-MAY-2000; 2000US-202359P. | | |
| PR | 11-MAY-2000; 2000US-203505P. | | |
| PR | 18-MAY-2000; 2000US-205564P. | | |
| PR | 26-MAY-2000; 2000US-207739P. | | |
| PR | 01-JUN-2000; 2000US-208795P. | | |
| PA | (INCYTE) INCYTE GENOMICS INC. | | |
| XX | | | |
| XX | Yue H, Gandhi AR, Tribouley CM, Kearney L, Griffin JA, Nguyen DB; Bandman O, Lu DM, Lal P, Burford N, Khan FA, Walla NK, Yao MG; Patterson C, Burrill JD, Marcus GA, Zingler KA, Reardon SA, Lu Y; Pollick JL, Thornton M, Tang YT, Hafalla A, Elliott VS, Baughn MR; Walsh RT, Raskumar J, Borowsky ML, Au-Young J, Hillman JL; Gururajan R; | | |
| XX | | | |
| DR | WPI: 2001-611740/70. | | |
| DR | N-PSDB; AAD18824. | | |
| XX | | | |
| PT | Human kinases and nucleic acids, useful for preventing diagnosing and treating cancers, inflammation and immune disorders - | | |
| PT | | | |
| PS | Claim 1; Page 134-136; 166pp; English. | | |
| XX | | | |
| CC | The present invention relates to human kinases (PKIN) and the nucleic acids encoding them. PKIN is used as vaccine and in gene therapy. PKIN is used in the prevention, diagnosis and treatment of diseases cancers, adenocarcinoma, leukemia, sarcoma, immune disorder, Addison's disease, acquired immune deficiency syndrome (AIDS), anaemia, asthma, allergies, gout, microbial infections, cardiovascular disease and/or inflammation, myasthenia gravis, atherosclerosis, cirrhosis, osteoporosis, myocardial infarction, cataract, growth and development disorder, seizure disorder, pulmonary embolism, Gaucher's disease, lipid disorder, lipid storage disease, Pick's disease, Tay-Sachs disease, renal disease and obesity. PKIN may be used to treat disorders associated with decreased PKIN expression by rectifying mutations or deletions in a patient's genome that affect the activity of PKIN by expressing inactive proteins or to | | |

| | | |
|--|---|--|
| | CC | supplement the patients own production of PKIN. PKIN nucleic acids may be used to produce the PKIN polypeptide, by inserting the nucleic acids into a host cell and culturing the cell to express the protein. |
| | CC | PKIN nucleic acid and its complementary sequences may also be used as DNA probes in diagnostic assays to detect and quantitate the presence of similar CC |
| | CC | nucleic acid sequences in samples and therefore which patients may be in need of restorative therapy. The present sequence is human PKIN-9 protein. |
| | CC | |
| SQ | Sequence | 1046 AA; |
| Query Match | | 81.6%; Score 239; DB 22; Length 1046; Best Local Similarity 77.8%; Pred. No. 2..5e-26; |
| Matches | 42; Conservative | 7; Mismatches 5; Indels 0; Gaps 0. |
| OY | 1 HBDIRAGNLTLEKIEHDDICKTKITDFGLAREWHRTKMSTAGTAWMAPE 54 : ::: :: :: | |
| Dd | 256 HRDLKSNTLLIQKVENGDSLNSKIKITDFFGLAREWHRTKMSTAATWAMAPE 309 | |
| RESULT 6 | AEE21717 | |
| ID | AEE21717 standard; Protein; 1097 AA. | |
| XX AC AAE21717; | | |
| DT 16-JUL-2002 (first entry) | | |
| DE Human PKIN-12 protein. | | |
| KX Human; kinase; enzyme; PKIN-12 protein; immune system disorder; anaemia; acquired immune deficiency syndrome; thymic hypoplasia; Crohn's disease; asthma; neurological disorder; epilepsy; Charcot-Marie-Tooth disease; AIDS; seizures; cell proliferative disorder; cancer; adenocarcinoma; leukaemia; lymphoma; melanoma; myeloma; sarcoma; developmental disorder; Down's syndrome; gene therapy; protein therapy; cytostatic. | | |
| OS Homo sapiens. | | |
| XX Key Location/Qualifiers | | |
| FH Peptide 1..17 | /label= Signal_peptide | |
| FT Protein 18..1097 | /note= "Mature human PKIN-12 protein" | |
| FT Domain 55..114 | /note= "SH3 domain" | |
| FT Domain 144..403 | /note= "Eukaryotic protein kinase domain" | |
| FT Domain 146..396 | /note= "Protein kinase domain" | |
| FT Domain 163..396 | /note= "Protein kinase domain" | |
| FT Domain 220..233 | /note= "Tyrosine kinase catalytic domain" | |
| FT Domain 258..276 | /note= "Tyrosine kinase catalytic domain" | |
| FT Domain 311..321 | /note= "Tyrosine kinase catalytic domain" | |
| FT Domain 330..352 | /note= "Tyrosine kinase catalytic domain" | |
| FT Domain 374..396 | /note= "Tyrosine kinase catalytic domain" | |
| FT Domain /note= "Tyrosine kinase catalytic domain" | 438..749 | |
| FT Domain /note= "Leucine zipper domain" | 869..893 | |
| FT Domain /note= "leucine zipper domain" | | |
| PB W0200218557-A2. | | |
| PD 07-MAR-2002. | | |
| PF 31-AUG-2001; 2001WO-US27219. | | |
| XX | | |

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PR 31-AUG-2000; 2000US-229873P.
PR 08-SEP-2000; 2000US-231357P.
PR 14-SEP-2000; 2000US-232654P.
PR 22-SEP-2000; 2000US-234902P.
PR 29-SEP-2000; 2000US-236499P.
PR 06-OCT-2000; 2000US-238389P.
PR 13-OCT-2000; 2000US-240542P.
XX
PA (INCYTE) INCYTE GENOMICS INC.
XX
PI Bandman O, Nguyen DB, Walia NK, Hafalia AJA, Yao MG, Gandhi AR,
PI Gururajan R, Ding L, Patterson C, Yue H, Baughn MR, Tribouley CM,
PI Thornton M, Elliott VS, Lu Y, Ison CH, Au-Young J, Tang YT;
PI Azimzai Y, Burrill JD, Marcus GA, Zingler KA, Lu DAM, Lal PG;
PI Ramkumar J, Warren BA, Kearney L, Policky JL, Thangavelu K;
PI Burford N;
XX
DR WPI; 2002-329769/36.
DR N-PSDB; AAD34309.
XX
PT New human kinases, useful for diagnosing, treating or preventing immune
PT system disorders (e.g. Crohn's disease), neurological disorders (e.g.
PT epilepsy), or cell proliferative disorders (e.g. cancers such as
PT leukemia or lymphoma)
XX
PS Claim 67; Page 171-173; 218pp; English.
XX
CC The present invention relates to human kinases (PKIN) and polynucleotides
CC encoding such proteins. PKIN sequences of the invention are useful for
CC diagnosing, treating or preventing disorders associated with aberrant
CC expression of PKIN, particularly immune system disorders (e.g. acquired
CC immune deficiency syndrome (AIDS), thymic hypoplasia, Crohn's disease,
CC anaemia, asthma), neurological disorders (e.g. epilepsy, Charcot-Marie-
CC Tooth disease or seizures), cell proliferative disorders (e.g. cancers
CC such as adenocarcinoma, leukaemia, lymphoma, melanoma, myeloma, sarcoma),
CC and developmental disorders (e.g. Down's syndrome). They are also used
CC in gene therapy and protein therapy. The present sequence is human
CC PKIN-12 protein.
XX
SQ Sequence 1097 AA;
XX
Query Match 81.6%; Score 239; DB 23; Length 1097;
Best Local Similarity 77.8%; Pred. No. 2,7e-26;
Matches 42; Conservative 7; Mismatches 5; Indels 0; Gaps 0;
OY 1 HRDIKAGNILLLEKIEHDDICNKTITDFGLAREHRTTKMSTAGTYAMWAP 54
DB 266 HRDLKSSNILLIQVENGDSLKNKILKITDFGLAREHRTTKMSTAGTYAMWAP 319
XX
RESULT 7
AAE22763
ID AAE22763 standard; Protein; 847 AA.
XX
AC AAE22763;
XX
DE 09-AUG-2002 (first entry)
XX
KW Human mitogen activated protein kinase, MAP3K11.
XX
KW Human; cytosolic; antisense gene therapy; screening; protein kinase;
KW cancer; liver; colon; tumour; inflammation; arthritic synovium; MAP3K11;
KW enzyme; mitogen activated protein kinase.
XX
OS Homo sapiens.
XX
PN WO200224947-A2.
XX
PD 28-MAR-2002.
XX
PF 20-SEP-2001; 2001WO-IB02237.
XX
PR 20-SEP-2000; 2000US-233999P.
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PR 02-OCT-2000; 2000US-237419P.
PR 02-OCT-2000; 2000US-237423P.
PR 04-OCT-2000; 2000US-238558P.
PR 10-MAY-2001; 2001US-290555P.
XX
PA (KINE-) KINETEK PHARM INC.
PA (UTBR-) UNIV BRITISH COLUMBIA.
XX
PI Yoganathan T, Delaney AD;
XX
DR WPI; 2002-394145/42.
DR N-PSDB; AAD36139.
XX
PT Diagnosing cancer, comprises determining the upregulation of expression
PT of a nucleic acid sequence encoding a protein kinase or upregulation of
PT expression of the protein kinase, in the cancer
XX
PS Claim 1; Page 60-62; 87pp; English.
XX
CC The invention relates to a method for screening biologically active agent
CC that modulates cancer associated protein kinase function. The invention
CC also relates to a method for diagnosing cancer comprising determining the
CC upregulation of expression of a nucleic acid sequence encoding a protein
CC kinase. The method is useful for diagnosing cancer. A protein kinase is
CC useful for screening biological agents that modulate cancer associated
CC protein kinase function. Downregulating the activity of protein kinase is
CC useful for inhibiting the growth of a cancer cell, e.g. liver or colon
CC cancer. A nucleic acid encoding protein kinase is useful to screen biopsy
CC derived tumours and inflammatory samples such as arthritic synovium, for
CC amplified DNA in the cell or increased expression of corresponding mRNA
CC or protein and is also useful to detect differences in expression levels
CC such as molecular weight, amino acid and nucleotide sequences between the
CC two cells. The present sequence is human mitogen activated protein
CC kinase, MAP3K11.
XX
SQ Sequence 847 AA;
XX
Query Match 78.8%; Score 231; DB 23; Length 847;
Best Local Similarity 77.8%; Pred. No. 3e-25;
Matches 42; Conservative 7; Mismatches 5; Indels 0; Gaps 0;
OY 1 HRDIKAGNILLLEKIEHDDICNKTITDFGLAREHRTTKMSTAGTYAMWAP 54
DB 239 HRDLKSSNILLIQVENGDSLKNKILKITDFGLAREHRTTKMSTAGTYAMWAP 292
XX
RESULT 8
AAO05527
ID AAO05527 standard; Protein; 138 AA.
XX
AC AAO05527;
XX
DE 06-NOV-2001 (first entry)
XX
KW Human polypeptide SEQ ID NO 19419.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US04927.
XX
PR 18-FEB-2000; 2000US-0515126.
XX
PR 18-MAY-2000; 2000US-0577409.
XX
PA (HYSE-) HYSEQ INC.
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| | | | |
|----------|---|--------------------------------------|---------------|
| XX | Tang YT, | Liu C, | Drimanac RT; |
| PI | | | |
| XX | | | |
| DR | WPI: | 2001-514838/56. | |
| DR | N-PSDB: | AAI185458. | |
| XX | | | |
| PT | Isolated nucleic acids and polypeptides, | useful for preventing | |
| PT | diagnosing and treating e.g. leukaemia, | inflammation and immune disorders - | |
| XX | | | |
| XX | Claim 20; SEQ ID NO 19419; | 1399bp + Sequence Listing; English. | |
| XX | | | |
| CC | The invention relates to human polynucleotides (AA179941-AA193841) and | | |
| CC | the encoded proteins (AA000010-AA013910) that exhibit activity elating to | | |
| CC | cytokine, cell proliferation or cell differentiation or which may induce | | |
| CC | production of other cytokines in other cell populations. The | | |
| CC | polynucleotides and polypeptides are useful in gene therapy, vaccines or | | |
| CC | peptide therapy. The polypeptides have various cytokine-like activities, | | |
| CC | e.g. stem cell growth factor activity, haematopoiesis regulating | | |
| CC | activity, tissue growth factor activity, immunomodulatory activity and | | |
| CC | activating/inhibin activity and may be useful in the diagnosis and/or | | |
| CC | treatment of cancer, leukaemia, nervous system disorders, arthritis and | | |
| CC | inflammation. | | |
| CC | Note: The sequence data for this patent did not form part of the printed | | |
| CC | specification, but was obtained in electronic format directly from WIPO | | |
| CC | at ftp.wipo.int/pub/published_pct_sequences. | | |
| XX | | | |
| SQ | Sequence | 138 AA: | |
| | | | |
| | Query Match | 74.4%; Score 218; DB 22; Length 138; | |
| | Best Local Similarity | 78.0%; Pred. No. 2.5e-24; | |
| | Matches | 39; Conservative | 6; Mismatches |
| | | | 5; Indels |
| | | | 0; Gaps |
| OY | | | 0; |
| | 5 KAGNILLKRIEHDDICNTKITDPGLAREHWHRTTKMSTACTGYAMMAPE 54 | | |
| | 1 KSSNIILLOKVENGDSLNRILKITDPLGALREHWHTTKMSAAGTYAMMAPE 50 | | |
| Db | | | |
| RESULT 9 | | | |
| ABBS8999 | | | |
| ID | ABBS8999 standard; Protein; 1020 AA. | | |
| XX | | | |
| AC | ABBS8999; | | |
| DT | | | |
| XX | 26-MAR-2002 (first entry) | | |
| DE | Drosophila melanogaster polypeptide SEQ ID NO 3789. | | |
| XX | | | |
| KW | Drosophila; developmental biology; cell signalling; insecticide; | | |
| XX | pharmaceutical. | | |
| OS | Drosophila melanogaster. | | |
| XX | | | |
| PN | MO2001/11042-A2. | | |
| PD | | | |
| XX | 27-SEP-2001. | | |
| PX | | | |
| XX | 23-MAR-2001; 2001WO-US09231. | | |
| PR | 23-MAR-2000; 2000US-191637P. | | |
| PR | 11-JUL-2000; 2000US-0614150. | | |
| XX | | | |
| PA | (PEKE) PE CORP NY. | | |
| PI | Venter JC, Adams M, Li PWD, Myers EW; | | |
| XX | | | |
| XX | WPI: 2001-656860/75. | | |
| DR | N-PSDB: ABL03102. | | |
| XX | | | |
| PT | New isolated nucleic acid detection reagent for detecting 1000 or more | | |
| PT | genes from Drosophila and for elucidating cell signalling and cell-cell | | |
| XX | interactions. | | |

| | | |
|---|--|---|
| PS | Disclosure: | SEQ ID NO 3789; ZIPP + Sequence Listing; English. |
| xx | | |
| CC | The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signaling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (AAB57737-AAB72072). | |
| CC | The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences. | |
| CC | | |
| CC | | |
| CC | | |
| CC | | |
| SQ | Sequence | 1020 AA; |
| | | |
| Query Match | Best Local Similarity | 62.8%; Score 184; DB 22; Length 1020; Matches 34; Conservativity 63.0%; Pred. No. 4e-18; |
| | Matches | 34; Conservativity 8; Mismatches 12; Indels 0; Gaps 0; |
| Oy | 1. HRDKAGNTLLLEKTEHDDICNKTITDEGLAREHNRTTKSTACTYMAAPE 54 :: :: :: : : | |
| Dd | 249 HRLDISSNVLTREALDGHTLIDQTLIKTDGFLARENWTFORMSAAGTYAMPPE 302 | |
| RESULT 10 | | |
| AAR85933 | | |
| ID | AAR85933 standard; Peptide; 45 AA. | |
| XX | | |
| AC | AAR85933; | |
| XX | | |
| DT | 14-FEB-1996 (first entry) | |
| XX | | |
| DE | Protein tyrosine-kinase Lptk4 fragment. | |
| XX | | |
| KM | Protein tyrosine-kinase; PTK; LPTK4; agonist; cell growth; differentiation. | |
| OS | Homo sapiens. | |
| PN | WO9527061-A1. | |
| PD | 12-OCT-1995. | |
| PF | 04-APR-1995; 95WO-US04228. | |
| PR | 04-APR-1994; 94US-0222616. | |
| PA | (GENENTEC) GENENTECH INC. | |
| PI | Bennett BD, Goeddel D, Lee JM, Matthews W, Tsai SP, | |
| FI | Wood WI; | |
| WI | WP1: 1995-366160/47. N-PSTD; AAT03094. | |
| Agonist antibodies which activate specific protein tyrosine kinase(s) - also activate chimeric proteins of kinase extracellular domain and Ig constant domain, useful for studying, and therapeutic modulation of, cell growth and differentiation | | |
| Disclosure; Page 38; 125pp; English. | | |
| DNA probes based on protein tyrosine-kinase (PTK) sequences were used to screen cDNA libraries to identify novel ptk genes. A lptk4 gene fragment (AAU03094) was isolated from lymphocytic and megakaryocytic cell line libraries and encoded a peptide (AAR85933) showing homology to known PTKs. The lptk4 peptide can be used in the design of drugs that modulate ptk activity. | | |
| Sequence | 45 AA; | |
| Query Match | 59.0%; Score 173; DB 16; Length 45; | |


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FT      Misc-difference 240
FT      /note= "Mentioned in specification"
FT      Misc-difference 251
FT      /note= "Mentioned in specification"
FT      Misc-difference 254..256
FT      /note= "Mentioned in specification"
FT      Misc-difference 278..280
FT      /note= "Mentioned in specification"
FT      Misc-difference 292
FT      /note= "Mentioned in specification"
FT      Misc-difference 294..295
FT      /note= "Mentioned in specification"
FT      Misc-difference 297
FT      /note= "Mentioned in specification"
FT      Region
FT      /note= "Mentioned in specification"
FT      /note= "Putative endoplasmic reticulum targeting
FT      sequence as given in the specification"
FT      Region
FT      442..468
FT      /label= "Leucine zipper motif"
FT      /note= "As stated in specification"
FT      Misc-difference 443
FT      /note= "Mentioned in specification"
FT      Misc-difference 450
FT      /note= "Mentioned in specification"
FT      Misc-difference 457
FT      /note= "Mentioned in specification"
FT      Misc-difference 464
FT      /note= "Mentioned in specification"
FT      Region
FT      537..544
FT      /label= "ATP binding site"
FT      /note= "As stated in specification"
FT      US5676945-A.
XX
XX      14-OCT-1997.
XX
XX      01-MAR-1994; 9405-0205018.
XX
XX      28-FEB-1995; 94US-0395580.
XX      01-MAR-1994; 94US-0205018.
XX
XX      (CHIL-) CHILDRENS HOSPITAL PHILADELPHIA.
XX
XX      Pleasure D, Reddy U;
XX
XX      WPI: 1997-511822/47.
XX      N-PSDB; AAT89349.
XX
XX      Human leucine zipper protein kinase - useful for treating tumours of
XX      the central nervous system
XX
XX      Claim 3; Fig 1; 19pp; English.
XX
XX      This sequence represents a novel human leucine zipper protein kinase
XX      isolated from brain tissue. The specification states that the
XX      protein contains an ATP-binding site at position 537-544 (consensus
XX      sequence Gly-Xaa-Gly-Xaa-Gly), a protein kinase domain at position
XX      231-243 and a putative endoplasmic reticulum (ER) targeting sequence at
XX      position 413-418 (consensus sequence REEL). This protein is most similar
XX      to members of serine/threonine protein kinases and is believed to be a
XX      "non-receptor type kinase" based on its lack of a transmembrane domain.
XX      Probes to this protein could be used for diagnostic or research purposes
XX      to detect or quantitate the expression of leucine zipper protein kinase.
XX      Overexpression of leucine zipper protein kinase can result in
XX      hyperproliferation of cells and metastasis. The application of exogenous
XX      leucine zipper protein kinase may interfere with specific protein-protein
XX      or protein-nucleic acid interactions involved in hyperproliferation. This
XX      may be used to treat animals suffering from tumours of the central
XX      nervous system by inhibiting the overexpression of leucine zipper protein
XX      kinase in vivo or by interfering with a vital signal in the chain of
XX      signals leading to tumourigenicity.

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SQ      Sequence      859 AA;
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CC      Query Match      42.5%; Score 124.5; DB 18; Length 859;
CC      Best Local Similarity 50.9%; Pred. No. 2,4e-09;
CC      Matches 28; Conservative 11; Mismatches 7; Indels 9; Gaps 3;
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DB      234 HRDLKSPNML-----ITYDDV---VKISDFTGSKELSDKSTKMSFAGTYAMNAP 280

RESULT 14
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ID      ABB57049 standard; Protein; 888 AA.
XX
XX      ABB57049;
XX
XX      07-MAR-2002 (first entry)
XX
XX      Mouse ischaemic condition related protein sequence SEQ ID NO:79.
XX
XX      Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;
XX      vasospastic ischaemia; ischaemic condition; ischaemic disease.
XX      Mus musculus.
XX
XX      WO200108188-A2.
XX
XX      22-NOV-2001.
XX
XX      18-MAY-2001; 2001WO-JP04192.
XX
XX      18-MAY-2000; 2000JP-0145977.
XX
XX      (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON.
XX
XX      Ishikawa K, Asai S, Takahashi Y, Nagata T, Ishii Y;
XX
XX      WPI: 2002-034733/04.
XX      N-PSDB; ABI99250.
XX
XX      Examining the ischemic condition (e.g. occlusive ischemia) by measuring
XX      expression levels of particular genes defined in the specification or
XX      by determining the expression profile of a gene group comprising these
XX      genes -
XX
XX      Claim 2; Page 244-248; 2690pp; English.
XX
XX      The present invention describes a method for examining ischaemic
XX      conditions, comprising measuring the expression levels of particular
XX      genes (I) in a test sample or determining the expression profile of a
XX      gene group in the sample comprising genes selected from (I). The method
XX      is useful for examining the ischaemic condition (e.g. compressive
XX      ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring
XX      expression levels of particular genes (ABI99202 to ABI99912, encoding
XX      the protein sequences in ABB57020 to ABB57374) or by determining the
XX      expression profile of a gene group comprising these genes. The
XX      used as an indicator when screening for ischaemic condition-improving
XX      drugs or therapeutics for ischaemic diseases. ABI9913 and ABI9914
XX      represent PCR primers for a mouse ischaemic condition related sequence,
XX      which are used in the exemplification of the present invention.
XX
XX      Sequence      888 AA;
CC
CC      Query Match      42.5%; Score 124.5; DB 23; Length 888;
CC      Best Local Similarity 50.9%; Pred. No. 2,5e-09;
CC      Matches 28; Conservative 11; Mismatches 7; Indels 9; Gaps 3;
OY      1 HRDIKAGNILLLEKIEHDDICNKTITPGLAREW-HRTTKMSTAGTYAMNAP 54
DB      267 HRDLKSPNML-----ITYDDV---VKISDFTGSKELSDKSTKMSFAGTYAMNAP 313

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RESULT 15
AAG28423
ID AAG28423 standard; Protein; 276 AA.
XX
AC AAG28423;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 33634.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
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PR 29-MAR-1999; 99US-0126785.
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Best Local Similarity 51.8%; Pred. No. 1.3e-09;
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OY 1 HRD1AGN1LL1EKT1EHDD1CKNT1K1TD1FGLAREWHRTTKMSTA--GT1AMMAPE 54
DB 72 HRDLKPKEN1LL1TAD-----HKT1VLADEGLARE-ES1TEM1TAETGT1RMMAPE 119

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